Form 442 Question 6: Description of Research Project (FCC Experimental License Request)

Applicant: Globalstar, Inc.
Form 442 File Number: 0649-EX-CN-2021

The objective of the Globalstar Form 442 Experimental License request is to support communications for the Space Dynamics Laboratory (SDL) CNCE Block 2 CubeSat mission.   The objectives of the CNCE Block 2 project are presented in the NTIA filing J/F 12/11285 for the CNCE Block 2 CubeSat mission.

Background:

This request is related to the NTIA filing for CNCE Block 2 Mission

In its request, SDL sought authority to operate Globalstar GSP-1720 (FCCID J9CGSSDVM) transceivers in space orbit.   These transceivers are integrated into the CNCE Block 2 CubeSat which will be launched into low-earth orbit. Data collected by the CNCE Block 2 CubeSat will be transmitted by the Globalstar modules and relayed to the mission operations center by means of the Globalstar system constellation and the associated Globalstar ground infrastructure.

In this Experimental License request, Globalstar seeks authority, in connection with the aforementioned CubeSat mission, to:

- receive transmissions from, and transmit to, the licensed transceiver module and relay the data to/from the CNCE Block 2 mission operations center

The only change from Globalstar's currently licensed operations is that the Globalstar constellation will be communicating with FCC-approved terminals located on a space station rather than communicating with these terminals from the usual earth-based location.   Globalstar's License does not cover space-to-space operation, thus requiring this Experimental License request.

The CNCE Block 2 CubeSat is expected to be in operation for 12 months.   The NTIA will notify the FCC of the dates of actual operation once those dates have been established.

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